



PTO/SB/08A (07-05)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	10/767,102
Filing Date	January 29, 2004
First Named Inventor	Jene A. Golovchenko
Art Unit	1743
Examiner Name	B. Sines
Attorney Docket Number	HVD2160

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US- 4,455,192	06-19-1984	Tamai	
	A2	US- 4,728,591	03-01-1988	Clark et al.	
	A3	US- 4,855,197	08-08-1989	Zapka et al.	
	A4	US- 5,091,320	02-25-1992	Aspnes et al.	
	A5	US- 5,244,527	09-14-1993	Aoyagi	
	A6	US- 5,319,197	06-07-1994	Friedhelm	
	A7	US- 5,420,067	05-30-1995	Hsu	
	A8	US- 5,486,264	01-23-1996	Ghandour	
	A9	US- 5,556,462	09-17-1996	Celli et al.	
	A10	US- 5,753,014	05-19-1998	Van Rijn	
	A11	US- 5,780,852	07-14-1998	Shu	
	A12	US- 5,789,024	08-04-1998	Levy et al.	
	A13	US- 5,851,842	12-22-1998	Katsumata et al.	
	A14	US- 5,798,042	08-25-1998	Chu et al.	
	A15	US- 5,838,005	11-17-1998	Majumdar et al.	
	A16	US- 5,868,947	02-09-1999	Sakaguchi et al.	
	A17	US- 5,876,880	03-02-1999	Vonach et al.	
	A18	US- 5,893,974	04-13-1999	Keller et al.	
	A19	US- 5,962,081	10-05-1999	Ohman et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	A20	EP-0 632 494 A	01-04-1995	Mitsubishi Electric Corp.	
	A21	DE-44 33 845-A	03-28-1996	Fraunhofer Ges Forschung	
	A22	WO-00 78668-A	12-28-2000	Pres & Fellows Harvard Coll.	

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	A23	US- 5,969,345	10-19-1999	Williams et al.	
	A24	US- 6,080,586	06-27-2000	Baldeschwieler et al.	
	A25	US- 6,106,677	08-22-2000	Sandhu	
	A26	US- 6,383,826	05-07-2002	Barsky et al.	
	A27	US- 6,426,296	07-30-2002	Okojie	
	A28	US- 6,464,842	10-15-2002	Golovchenko et al.	
	A29	US- 2003/0058799	03-27-2003	Yamakawa et al.	
	A30	US- 6,627,067	09-30-2003	Branton et al.	
	A31	US- 2003/0187237	10-02-2003	Chan et al.	
	A32	US- 6,783,643	08-31-2004	Golovchenko et al.	
	A33	US- 2004/0229386	11-18-2004	Golovchenko et al.	
	A34	US- 2005/0126905	06-16-2005	Golovchenko et al.	
	A35	US- 2005/0241933	11-03-2005	Branton et al.	
	A36	US- 2005/0006224	01-13-2005	Golovchenko et al.	
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	A37	WO 2004/078640-A1	09-16-2004	Technische Universiteit Delft	

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		Attorney Docket Number	HVD2160

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	B1	YOLDAS et al., "Formation of Broad Band Antireflective Coatings on Fused Silica for High Power Laser Applications," Thin Solid Films, Vol. 129, pp. 1-14, 1985.		
	B2	SHANK et al., "Fabrication of high aspect ratio structures for microchannel plates," J. Vac. Sci. Technol. B, Vol. 13, No. 6, pp. 2736-2740, Nov/Dec 1995.		
	B3	GRIBOV, et al., "A new fabrication process for metallic point contacts," Microelectronic Engineering, Vol. 35, pp. 317-320, 1997.		
	B4	ERLEBACHER et al., "Spontaneous Pattern Formation on Ion Bombarded Si(001)," Phys. Rev. Letts., Vol. 82, No. 11, pp. 2330-2332, March 1999.		
	B5	DESHMUKH et al., "Nanofabrication using a stencil mask," Appl. Phys. Letts. Vol. 75, No. 11, pp. 1631-1633, September 1999.		
	B6	WALKER et al., "Focused ion beam processing for microscale fabrication," Microelectronic Engineering, Vol. 30, pp. 517-522, 1996.		
	B7	WELLOCK et al., "Giant magnetoresistance of magnetic multilayer point contacts," Phys. Rev. B, Vol. 60, No. 14, pp. 10291-10301, October 1999-II.		
	B8	DESAI et al., "Characterization of micromachined silicon membranes for immunosilication and bisepartition applications," Jnl of Membrane Science, Vol. 159, pp. 221-231, 1999.		
	B9	ERLEBACHER et al., "Nonlinear amplitude evolution during spontaneous patterning of ion-bombarded Si(001)," J. Vac. Sci. Technol. A., Vol. 18, No. 1, pp. 115-120, Jan/Feb 2000.		
	B10	LI et al., "Ion-beam sculpting at nanometre length scales," Nature, Vol. 412, pp. 166-169, July 2001.		

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		Filing Date	January 29, 2004
		First Named Inventor	Gene A. Golovchenko
		Art Unit	1743
		Examiner Name	B. Sines
Sheet	4	of	7
		Attorney Docket Number	HVD2160

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	NN	KENNY et al., "Micromachined silicon tunnel sensor for motion detection," Appl. Phys. Lett., Vol. 58, No. 1, pp. 100-102, January 7, 1991.		
	OO	CHEN et al., "Novel fabrication method for nanometer-scale silicon dots and wires," Appl. Phys. Lett., Vol. 62, No. 16, pp. 1949-1951, April 1993.		
	PP	ROCKSTAD et al., "A miniature high-sensitivity broad-band accelerometer based on electron tunneling transducers," Sensors and Actuators A, Vol. 43, pp. 107-114, 1994.		
	QQ	LUTWYCHE et al., "Observation of a vacuum tunnel gap in a transmission electron microscope using a micromechanical tunneling microscope," Appl. Phys. Lett., Vol. 66, No. 21, pp. 2807-2809, May 1995.		
	RR	RALPH et al., "Spectroscopic Measurements of Discrete Electronic States in Single Metal Particles," Phys. Rev. Lett., Vol. 74, No. 16, pp. 3241-3244, April 1995.		
	SS	CHEN et al., "Coulomb blockade at 77 K in nanoscale metallic islands in a lateral nanostructure," Appl. Phys. Lett., Vol. 66, No. 24, pp. 3383-3384, June 1995.		
	TT	ZHOU et al., "Microfabrication of a mechanically controllable break junction in silicon," Appl. Phys. Lett., Vol. 67, No. 8, pp. 1160-1161, August 1995.		
	UU	LUTWYCHE et al., "Direct observation of a vacuum tunnel gap in a tunneling microscope using a transmission electron microscope," J. Vac. Sci. Technol. B, Vol. 13, No. 6, pp. 2819-2822, Nov 1995.		
	VV	KUBATKIN et al., "Single-electron transistor of a single organic molecule with access to several redox states," Nature, Vol. 425, pp. 698-701, October 16, 2003.		
	WW	KLEIN et al., "An approach to electrical studies of single nanocrystals," Appl. Phys. Lett., Vol. 68, No. 18, pp. 2574-2576, April 1996.		

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	XX	SATO et al., "Observation of a Coulomb staircase in electron transport through a molecularly linked chain of gold colloidal particles," Appl. Phys. Lett., Vol. 70, No. 20, pp. 2759-2761, May 1997.	
	YY	RALPH et al., "Gate-Voltage Studies of Discrete Electronic States in Aluminum Nanoparticles," Phys. Rev. Lett., Vol. 78, No. 21, pp. 4087-4090, May 1997.	
	ZZ	BEZRYADIN et al., "Nanofabrication of electrodes with sub-5 nm spacing for transport experiments on single molecules and metal clusters," J. Vac., Sci. Technol. B Vol. 15, No. 4, pp. 793-799, July 1997.	
	Z1	BEZRYADIN et al., "Electrostatic trapping of single conducting nanoparticles between nanoelectrodes," Appl. Phys. Lett., Vol. 71, No. 9, pp. 1273-1275, September 1997.	
	Y1	DATTA et al., "Current-Voltage Characteristics of Self-Assembled Monolayers by Scanning Tunneling Microscopy," Phys. Rev. Lett., Vol. 79, No. 13, pp. 2530-2533, Sept. 1997.	
	C1	REED et al., "Conductance of a Molecular Junction," Science, Vol. 278, pp. 252-254, October 1997.	
	D1	KLEIN et al., "A single-electron transistor made from a cadmium selenide nanocrystal," Nature, Vol. 389, pp. 99-101, October 1997.	
	E1	KOMURO et al., "Lateral tunnel junction produced by electron-beam-induced deposition," J. Vac. Sci. Technol. B, Vol. 15, No. 6, pp. 2809-2815, November 1997.	
	F1	GOSCHNICK et al., "Non-uniform SiO ₂ membranes produced by ion beam-assisted chemical vapor deposition to tune WO ₃ gas sensor microarrays," Surf. and Coat. Technol., Vol. 108-109, pp. 292-296, 1998.	
	G1	DESMICHT et al., "Point-contact electrodes to probe charging effects in individual ultrasmall cobalt clusters," Appl. Phys. Lett., Vol. 72, No. 3, pp. 386-388, January 1998.	

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	H1	JUNNO et al., "Fabrication of quantum devices by Angstrom-level manipulation of nanoparticles with an atomic force microscope," Appl. Phys. Lett., Vol. 72, No. 5, pp. 548-550, February 1998.		T ²
	I1	DAVIDOVIC et al., "Coulomb blockade and discrete energy levels in Au nanoparticles," Appl. Phys., Lett., Vol. 73, No. 26, pp. 3959-3961, December 1998.		
	J1	MORPURGO et al., "Controlled fabrication of metallic electrodes with atomic separation," Appl. Phys. Lett., Vol. 74, No. 14, pp. 2084-2086, April 1999.		
	K1	BRANTON et al., "Adapting to nanoscale events," Nature, Vol. 398, pp. 60-661, April 1999.		
	L1	KERGUERIS et al., "Electron transport through a metal-molecule-metal junction," Phys. Rev. B, Vol. 59, No. 19, PRB 59, pp. 12 505- 12 513, May 1999.		
	M1	PARK et al., "Fabrication of metallic electrodes with nanometer separation by electromigration," Appl. Phys. Lett., Vol. 75, No. 2, pp. 301-303, July 1999.		
	N1	PORATH et al., "Direct measurement of electrical transport through DNA molecules," Nature, Vol. 403, pp. 635-638, February 2000.		
	O1	KUBATKIN et al., "Tunneling Through a Single Quench-condensed Cluster," Jnl. Low Temp. Phys., Vol. 118, Nos. 5/6, pp. 307-316, 2000.		
	P1	WANG et al., "Nanopores with a spark for single-molecule detection," Nature Biotechnology, Vol. 19, pp. 622-623, July 2001.		
↓	Q1	HERMANSON et al., "Dielectrophoretic Assembly of Electrically Functional Microwires from Nanoparticle Suspensions," Science, Vol. 294, pp. 1082-1085, November 2001.		

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<i>BS</i>	R1	YOO et al., "Electrical Conduction through Poly(dA)-Poly(dG)-Poly(dC) DNA Molecules," Phys. Rev. Lett., Vol. 87, No. 19, pp. 198102-1198102-4, November 2001.	
	S1	LIANG et al., "Kondo resonance in a single-molecule transistor," Nature, Vol. 417, pp.725-729, June 2002.	
	T1	PARK et al., "Coulomb blockade and the Kondo effect in single-atom transistors," Nature, Vol. 417, pp. 722-725, June 2002.	
	U1	STEIN et al., "Ion-Beam Sculpting Time Scales," Phys. Rev. Lett., Vol. 89, No. 27, pp. 276106-1 - 276106-4, December 2002.	
	V1	GORDON et al., "A Kinetic Model for Step Coverage by Atomic Layer Deposition in Narrow Holes or Trenches," Chemical Vapor Deposition, Vol. 9, No. 2, pp. 73-78, 2003.	
	W1	LI et al., "DNA molecules and configuration in a solid-state nanopore microscope," Nature Materials, Vol. 2, pp. 611-614, September 2003.	

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